PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER | | | | | | |
|--|---|--|--|--|--|--|--|
| Applicants of agents life reference | | see Form PCT/ISA/220 | | | | | |
| P01-2533WO/1 | ACTION as | well as, where applicable, item 5 below. | | | | | |
| International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) | | | | | |
| PCT/EP2010/054050 | 26/03/2010 | 31/03/2009 | | | | | |
| Applicant | | | | | | | |
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| BOEHRINGER INGELHEIM INTER | RNATIONAL GMBH | | | | | | |
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| This international search report has been according to Article 18. A copy is being tra | | uthority and is transmitted to the applicant | | | | | |
| This international search report consists o | of a total of 3 sheets | - | | | | | |
| 1 — | | this report | | | | | |
| X It is also accompanied by | a copy of each prior art document cited in | triis report. | | | | | |
| Basis of the report | | | | | | | |
| · | international search was carried out on the | basis of: | | | | | |
| | application in the language in which it was t | | | | | | |
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| of a translation full | e international application into rnished for the purposes of international se | earch (Rules 12.3(a) and 23.1(b)) | | | | | |
| b. This international search in authorized by or notified to | report has been established taking into acc o this Authority under Rule 91 (Rule 43.6 <i>b</i> . | count the rectification of an obvious mistake is(a)). | | | | | |
| c. With regard to any nucleo | otide and/or amino acid sequence disclo | sed in the international application, see Box No. I. | | | | | |
| 2. Certain claims were fou | nd unsearchable (See Box No. II) | | | | | | |
| | | | | | | | |
| 3. Unity of invention is lac | king (see Box No III) | | | | | | |
| 4. With regard to the title, | | | | | | | |
| the text is approved as su | bmitted by the applicant | | | | | | |
| X the text has been establis | hed by this Authority to read as follows: | · | | | | | |
| 1-HETEROCYCLYL-1,5-DIH | IYDRO-PYRAZOLO[3,4-D]PYRIN | MIDIN-4-ONE DERIVATIVES AND | | | | | |
| THEIR USE AS PDE9A MOD | | | | | | | |
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| 5. With regard to the abstract, | · | | | | | | |
| X the text is approved as su | bmitted by the applicant | | | | | | |
| | | thority as it appears in Box No. IV. The applicant search report, submit comments to this Authority | | | | | |
| 6. With regard to the drawings , | | | | | | | |
| 1 ° | sublished with the abstract is Figure No. | and the second s | | | | | |
| _ | oublished with the abstract is Figure No | | | | | | |
| as suggested by t | | • | | | | | |
| | s Authority, because the applicant failed to | | | | | | |
| as selected by thi | s Authority, because this figure better char | acterizes the invention | | | | | |
| b. none of the figures is to b | e published with the abstract | | | | | | |

INTERNATIONAL SEARCH REPORT

International application No PCT/EP2010/054050

| A. CLASSI INV. | FICATION OF SUBJECT MATTER C07D487/04 A61K31/519 | | | | | | |
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| ADD. | | | | | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | | | | | |
| B. FIELDS SEARCHED | | | | | | | |
| Minimum do | ocumentation searched (classification system followed by classification | on symbols) | | | | | |
| 0075 | | | • | | | | |
| Documental | tion searched other than minimum documentation to the extent that s | such documents are included in the fields se | earched | | | | |
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| Electronic d | ata base consulted during the international search (name of data ba | se and, where practical, search terms used |) | | | | |
| EPO-In | ternal, CHEM ABS Data, WPI Data, BEI | [LSTEIN Data | | | | | |
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| C. DOCUM | ENTS CONSIDERED TO BE RELEVANT | | | | | | |
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| Furth | her documents are listed in the continuation of Box C. | X See patent family annex. | | | | | |
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| , | ent defining the general state of the art which is not | "T" later document published after the inte or priority date and not in conflict with | the application but | | | | |
| considered to be of particular relevance invention | | | , , , | | | | |
| filing date Car | | "X" document of particular relevance; the c cannot be considered novel or cannot involve an inventive step when the do | be considered to | | | | |
| which | is cited to establish the publication date of another nor other special reason (as specified) | "Y" document of particular relevance; the c cannot be considered to involve an involve a | laimed invention | | | | |
| "O" docume | ent referring to an oral disclosure, use, exhibition or means | document is combined with one or mo ments, such combination being obviou | re other such docu- | | | | |
| "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent is | | | · | | | | |
| Date of the | actual completion of the international search | Date of mailing of the international sea | rch report | | | | |
| 2 | 7 May 2010 | 06/07/2010 | | | | | |
| | | Authorized officer | ** | | | | |
| Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 | | | | | | | |
| NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Fax: (+31–70) 340–3016 | | Fink, Dieter | | | | | |

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Information on patent family members

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